



## Safe Drinking Water Act 1414(c)(5) Data Submission Form For Exceedance of Lead Level at Household(s)

This form is to be completed when EPA receives sampling data from a source other than a state or public water system (PWS). The purpose is to collect information so EPA can send it to the PWS/state so they can disseminate required information to the household and take any follow-up steps. If information is not available or is unknown, please indicate as such on the form.

Contact Information		
1. Name of contact providing the information: <b>CDM Smith</b>	2. EPA Contact Reviewing the Information: <b>Mike Schock</b>	
1A. Contact Email: <b>Not Available</b>	2A. EPA Contact Email: <b>schock.michael@epa.gov</b>	
1B. Contact Phone Number: <b>Not Available</b>	2B. EPA Contact Phone Number: <b>513-569-7412</b>	
1C. Contact Address: <b>110 Fieldcrest Ave, #8, 6th Floor, Edison, NJ 08837</b>		
Household Information		
3. Enter the sample address below. 3A. Street house & Number: <div><b>Personal Matters / Ex. 6</b></div>		
3B. City or Town: <b>Newark</b>	3C. State: <b>NJ</b>	3D. Zip Code: <b>07112</b>
4. Describe the reason for the sample collection (e.g., received consumer notice that water system exceeded lead action level, nearby school conducted sampling and I wanted to check my water): <b>Investigative sampling conducted by consultant to Newark Water and Sewer</b>		
5. Indicate the type of household where the sample was collected (e.g., single family, multifamily home, apartment complex): <b>Single Family</b>	6. Enter the age of the building/home: <b>Built 1922</b>	

7. Is the household occupied? <input type="checkbox"/> Yes <input type="checkbox"/> No	7A. If not, how long has it been unoccupied?
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8. Enter contact information for the resident or owner/property manager (if a rental property) below.	
8A. Name of Contact: <b>Not Available</b>	8B. Contact Email: <b>Not Available</b>
8C. Contact Phone Number: <b>Not Available</b>	8D. Address (If different from Contact Information section above):

9. Name of the public water system (ask if the resident receives a water bill): <b>Newark Water and Sewer</b>
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<b>Plumbing Information</b>
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10. If known, indicate the water pipe material from within the household (e.g., lead, copper, plastic, PEX): <b>PEX, Cu, LSL</b>
11. If known, explain any recent changes to the household plumbing (e.g., replaced pipes, fixed leak): <b>None</b>

12. Does the household have a point of use (POU)/point of entry (POE) devices? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
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12A. If yes, indicate the type of treatment (e.g., reverse osmosis, water softener, etc.):	12B. If yes, was the water filter bypassed when the sample was collected? <input type="checkbox"/> Yes <input type="checkbox"/> No
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<b>Sample Collection Information</b>
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13. Enter the date and time of the sample collection: <b>9/10/18</b>	14. Name of Sample Collector: <b>Sandra Kutzing and Patricia Hogan</b>
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15. Where was the sample collected? (e.g., kitchen, bathroom, drinking fountain): <b>Kitchen</b>
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16. Describe the sampling protocols that were followed (e.g., first draw, flush, stagnation period, etc.):  <b>10 minute flush prior to 9 hr and 50 min stagnation, then sequential profile samples were collected.</b>
17. What was the sample volume? <b>500 mL</b>

18. Describe what was done to preserve the sample after collection (e.g., immediately sealed containers, left sealed samples out in room temperature, sent samples to lab in timely manner, etc.):

**Samples were sent to lab in timely manner.**

### Analytical Results Information

19. Enter contact information for the laboratory that is analyzing the sample below.

19A. Name of the laboratory:

Agra Environmental and Laboratory Services

19B. Name of contact:

Mike Furrey

19C. Contact Email:

MFurrey@agra.us

19D. Contact Phone Number:

937-989-0010

19E. Contact Address:

90 1/2 West Blackwell St., Dover, NJ 07801

20. Is the laboratory EPA certified for lead analysis?

☐

Yes

☐

No

If yes, enter certification number:

NJ Laboratory Certification ID # 14013

21. What analytical method did the laboratory use to analyze the sample?

SM3113B

22. What is the laboratory hold time?

14-15 days

23. Was analysis conducted using a formal chain of custody?

☐

Yes

☐

No

If yes, please attach documentation.

24. Is there a copy of the laboratory report?

☐

Yes

☐

No

Sample ID	Cumulative Volume (L)	Total Lead (µg/L)	Soluble Lead (µg/L)
A1	0.5	93.1	16.2
A2	1.0	107	24.6
A3	1.5	111	29.4
A4	2.0	72.2	29.1
A5	2.5	101	42.5
A6	3.0	78.6	33.4
A7	3.5	138	43.4
A8	4.0	166	78.4
A9	4.5	197	102
A10	5.0	266	114
A11	5.5	296	134
A12	6.0	291	140
A13	6.5	352	74
A14	7.0	350	110
A15	7.5	399	138
Flush	8	50.5	76.6



Environmental and Laboratory Services  
90 ½ West Blackwell St., Dover, New Jersey 07801  
(973) 989-0010 P, (973) 989-0156 F

## Analytical Results

Date: September 25, 2018

Client: City of Newark  
Division of Sewers & Water Supply

Address: 1294 McBride Ave  
Little Falls, NJ 07424

Sample description: Grab / 18091101-01

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga / M. Schrieke / J. MacDonald

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead (1 <sup>st</sup> Draw)	SM3113B	93.1 µg/L(1)	15 µg/L	09/17/18	19:09	100	200 µg/L
Lead (Dissolved)	SM3113B	16.2 µg/L	5 µg/L	09/14/18	00:36	1	2 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:02	1	0.05 mg/L
Alkalinity	SM2320B	34.0 mg/L	--	09/12/18	10:43	1	5 mg/L
Conductivity	SM2510B	210 uMho/cm @ 25°C	--	09/13/18	15:43	1	5 uMho/cm

Sample description: Grab / 18091101-02

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	107 µg/L	5 µg/L	09/13/18	19:28	10	20 µg/L
Lead (Dissolved)	SM3113B	24.6 µg/L	5 µg/L	09/14/18	00:44	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:02	1	0.05 mg/L

Sample description: Grab / 18091101-03

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	111 µg/L	5 µg/L	09/13/18	19:42	10	20 µg/L
Lead (Dissolved)	SM3113B	29.4 µg/L	5 µg/L	09/14/18	00:44	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:02	1	0.05 mg/L

Sample description: Grab / 18091101-04

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	72.2 µg/L	5 µg/L	09/13/18	19:53	4	8 µg/L
Lead (Dissolved)	SM3113B	29.1 µg/L	5 µg/L	09/14/18	01:12	2	4 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:03	1	0.05 mg/L

Sample description: Grab / 18091101-05

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	101 µg/L	5 µg/L	09/13/18	20:18	10	20 µg/L
Lead (Dissolved)	SM3113B	42.5 µg/L	5 µg/L	09/14/18	01:23	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-06

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	78.6 µg/L	5 µg/L	09/13/18	20:35	4	8 µg/L
Lead (Dissolved)	SM3113B	33.4 µg/L	5 µg/L	09/14/18	01:31	2	4 µg/L
Copper	SM3111B	0.089 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-07

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	138 µg/L	5 µg/L	09/13/18	21:05	10	20 µg/L
Lead (Dissolved)	SM3113B	43.4 µg/L	5 µg/L	09/14/18	01:42	8	8 µg/L
Copper	SM3111B	0.112 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-08

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	166 µg/L (1)	5 µg/L	09/17/18	19:15	100	200 µg/L
Lead (Dissolved)	SM3113B	78.4 µg/L	5 µg/L	09/14/18	01:59	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L
Alkalinity	SM2320B	34.0 mg/L	--	09/12/18	10:44	1	5 mg/L
Conductivity	SM2510B	238 uMho/cm @ 25°C	--	09/13/18	15:45	1	5 uMho/cm

Sample description: Grab / 18091101-09

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	197 µg/L (1)	5 µg/L	09/17/18	19:37	100	200 µg/L
Lead (Dissolved)	SM3113B	102 µg/L	5 µg/L	09/14/18	02:24	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:04	1	0.05 mg/L

Sample description: Grab / 18091101-10

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	266 µg/L	5 µg/L	09/17/18	19:42	100	200 µg/L
Lead (Dissolved)	SM3113B	114 µg/L	5 µg/L	09/14/18	02:43	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-11

Sample location: Personal Matters / Ex. 6

Sampled By: S. Lamond

Sample date: 09/10/18

Time: 18:00

Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	296 µg/L	5 µg/L	09/17/18	19:48	100	200 µg/L
Lead (Dissolved)	SM3113B	134 µg/L	5 µg/L	09/17/18	20:24	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-12  
 Sample location: Personal Matters / Ex. 6  
 Sampled By: S. Lamond  
 Sample date: 09/10/18  
 Time: 18:00  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	291 µg/L	5 µg/L	09/17/18	19:53	100	200 µg/L
Lead (Dissolved)	SM3113B	140 µg/L	5 µg/L	09/17/18	20:43	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-13  
 Sample location: Personal Matters / Ex. 6  
 Sampled By: S. Lamond  
 Sample date: 09/10/18  
 Time: 18:00  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	352 µg/L	5 µg/L	09/17/18	19:59	100	200 µg/L
Lead (Dissolved)	SM3113B	74.0 µg/L (1)	5 µg/L	09/18/18	17:06	100	200 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:05	1	0.05 mg/L

Sample description: Grab / 18091101-14  
 Sample location: Personal Matters / Ex. 6  
 Sampled By: S. Lamond  
 Sample date: 09/10/18  
 Time: 18:00  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	350 µg/L	5 µg/L	09/17/18	20:04	100	200 µg/L
Lead (Dissolved)	SM3113B	110 µg/L	5 µg/L	09/17/18	21:46	100	10 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:06	1	0.05 mg/L

Sample description: Grab / 18091101-15  
 Sample location: Personal Matters / Ex. 6  
 Sampled By: S. Lamond  
 Sample date: 09/10/18  
 Time: 18:03  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	399 µg/L	5 µg/L	09/17/18	20:10	100	200 µg/L
Lead (Dissolved)	SM3113B	138 µg/L	5 µg/L	09/17/18	22:11	10	20 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:07	1	0.05 mg/L

Sample description: Grab / 18091101-16  
 Sample location: Personal Matters / Ex. 6  
 Sampled By: S. Lamond  
 Sample date: 09/10/18  
 Time: 18:14  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	50.5 µg/L	5 µg/L	09/14/18	00:14	4	8 µg/L
Lead (Dissolved)	SM3113B	76.6 µg/L	5 µg/L	09/17/18	22:22	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:07	1	0.05 mg/L
Alkalinity	SM2320B	36.0 mg/L	--	09/12/18	10:46	1	5 mg/L
Conductivity	SM2510B	206 uMho/cm @ 25°C	--	09/13/18	15:46	1	5 uMho/cm

Sample description: Grab / 18091101-17  
 Sample location: Personal Matters / Ex. 6 (Composite A/1& A/2)  
 Sampled By: S. Lamond  
 Sample date: --  
 Time: --:--  
 Analyst: B. Moraga

Parameter	Method	Sample Result	NJDEP Limit	Date Analyzed	Time Analyzed	Dilution Factor	Reporting Limit
Lead	SM3113B	72.9 µg/L	5 µg/L	09/14/18	00:31	4	8 µg/L
Copper	SM3111B	<0.05 mg/L	1.3 mg/L	09/14/18	12:08	1	0.05 mg/L

µg/L = micrograms per liter  
 mg/L = milligrams per liter

Notes: (1) Concentration level is estimated to dilution level. Value was greater than detection level but less than the lowest standard.

All testing was done within the required holding time.

I certify that these samples were analyzed in accordance with procedures approved by the New Jersey Department of Environmental Protection.

Susan Van Veen  
 Susan VanVeen, Lab Manager  
 NJ Laboratory Certification ID # 14013

9/25/18  
 Date

# CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

# Asc./HCl Vials pH: \_\_\_\_\_  
 # HCl Vials pH: \_\_\_\_\_  
 # Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Cl<sub>2</sub>: \_\_\_\_\_  
 # HNO<sub>3</sub> pH: \_\_\_\_\_  
 # H<sub>2</sub>SO<sub>4</sub> pH: \_\_\_\_\_  
 # NaOH pH: \_\_\_\_\_  
 # 16 unpreserved \_\_\_\_\_  
 # other \_\_\_\_\_  
 # other \_\_\_\_\_

Customer Name:	City of Newark	Report To:	Selene Samuel	Agra Environmental Services
Address:	620 Ridge Rd			90½ West Blackwell Street
	Cedar Grove, NJ 07009			Dover, NJ 07801
County/Municipality:				Phone: (973) 989-0010
Phone:	973-239-4493			Fax: (973) 989-0156
Work:	Tricia: 201-675-7225			

Matrix Abbreviations: D - Drinking Water G- Groundwater W- Wastewater S- Soil SL- Sludge P-Pool L-Lake


Project: Sequential Sampling		Collection		PWSID# NJ0714001				for laboratory use only		Field Analysis	
Field ID	Lab ID:	Date	Time	Grab	Comp	Matrix	# of Bottles	Preservative	ANALYSIS REQUESTED	Cl <sub>2</sub>	pH/T°C
50-52 Goldsmith Ave N	A/1	9/10/2018	18:00	X		D	1	none	Total & Dissolved Pb, Total Cu (all samples):	0.02	7.91/20.9°C
* Silica	A/2	9/10/2018		X		D	1	none	Alkalinity, Conductivity, **Silica (first, middle and final samples)		
	A/3	9/10/2018		X		D	1	none	**pH/temperature, Free Chlorine (first and final samples)		
	A/4	9/10/2018		X		D	1	none			
	A/5	9/10/2018		X		D	1	none	**pH/temperature, Free chlorine, and Silica analyzed by Newark		
	A/6	9/10/2018		X		D	1	none			
	A/7	9/10/2018		X		D	1	none		0.04	7.73/20.7°C
* Silica	A/8	9/10/2018		X		D	1	none			
	A/9	9/10/2018		X		D	1	none			
	A/10	9/10/2018		X		D	1	none			

Sampled By (name/company): S. Lamond / Agra	State Forms Needed (circle one): Yes or <u>No</u>		indicate laboratory location where analysis requested was performed	
	NJDEP Laboratory Certification (Dover, NJ) #14013			
	NJDEP Laboratory Certification (Marlboro, NJ) #13033			

Reporting Requirements (Check Box):	Standard	NJ Reduced	Other (Specify)	Cooler Temperature Upon Receipt at lab: N/Acc
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Sample Custody Exchanges (Please use full legal signature)						Scanned _____	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
	9/10/18	19:19	Julia MacDonell	9/10/18	0823		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Date Faxed _____	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Invoice Number _____	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Is sample known to be hazardous? (circle one) Yes or No	

# CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

Customer Name: City of Newark		Report To: Selene Samuel		Agra Environmental Services		
Address: 620 Ridge Rd				90½ West Blackwell Street		
Cedar Grove, NJ 07009				Dover, NJ 07801		
County/Municipality:				Phone: (973) 989-0010		
Phone: 973-239-4493				Fax: (973) 989-0156		
Work: Tricia: 201-675-7225						
Matrix Abbreviations: D - Drinking Water G- Groundwater W- Wastewater S- Soil SL- Sludge P- Pool L- Lake						Page 2 of 2
Project: Sequential Sampling		Collection		PWSID# NJ0714001		for laboratory use only
Field ID: 18091101 (32)		Lab ID:		Date		Time
Grab		Comp		Matrix		# of Bottles
Preservative		ANALYSIS REQUESTED		Cl <sub>2</sub>		pH/T°C
50-52 Goldsmith Ave N A/11		9/10/2018		X		D 1 none
A/12		9/10/2018		X		D 1 none
A/13		9/10/2018		X		D 1 none
A/14		9/10/2018		X		D 1 none
A/15		9/10/2018 18:03		X		D 1 none
Flushed 10 min A/16		9/10/2018 18:14		X		D 1 none
Silica		9/10/2018		X		D 1 none
Ph/Temp/Cl <sub>2</sub> only		9/10/2018 18:16		X		D 1 none
No Sample		9/10/2018		X		D 1 none
9/10/2018				X		D 1 none
Sampled By (name/company): S. Lamond/Agra		State Forms Needed (circle one): Yes or No		indicate laboratory location where analysis requested was performed		
		NJDEP Laboratory Certification (Dover, NJ) #14013				
		NJDEP Laboratory Certification (Marlboro, NJ) #13033				
Reporting Requirements (Check Box):		Standard		NJ Reduced		Other (Specify)
						Cooler Temperature Upon Receipt at lab: N/A °C
Sample Custody Exchanges (Please use full legal signature)						Scanned
Relinquished By: [Signature]		Date: 9/10/18		Time: 19:19		Received By: [Signature]
Date: 9/10/18		Time: 19:19		Date: 9/14/18		Time: 0823
Relinquished By:		Date:		Time:		Received By:
Date:		Time:		Date:		Time:
Relinquished By:		Date:		Time:		Received By:
Date:		Time:		Date:		Time:
Relinquished By:		Date:		Time:		Received By:
Date:		Time:		Date:		Time:
Date Faxed						Invoice Number
Is sample known to be hazardous? (circle one)						Yes or No